



# भारत का राजपत्र

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प्राधिकार से प्रकाशित

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इस भाग में भिन्न पृष्ठ संख्या वाले जाते हैं जिससे कि यह अलग संकलन के रूप में रख जा सके।

[Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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#### PATENTS AND DESIGNS

Calcutta, the 9th April 1988

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The names of the following Patent Agents have been deleted from the Register of Patent Agents under Rule 10(1)(d) of the Patents Rules, 1972 :—

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3. Shri T. N. Aggarwal, 74, South Basti Harphool Singh, Sadar Thana Road, Delhi-6.
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5. Shri Ramesh Chandra Mishra, C/o Messrs. International Trade Marks Bureau, Manekji Wadia Building, 127, Mahatma Gandhi Road, Bombay-400 023.
6. Shri S. M. Siva Rudraiah, 40/838, State Bank Circle, Karnool-4, (A.P.), Pin-518004.

### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

Calcutta, the 2nd March 1988

- 182/Cal/88 Karel Havel, Variable colour display telephone.  
 183/Cal/88 Timex Corporation, Quartz analog movement with level stepping motor and large energy cell.  
 184/Cal/88 Dermasciences, Inc. Method of preparing compositions in the form of liquids and ointments for the treatment of injured mammalian tissue. (Convention dated 23rd March, 1987) (532, 691) Canada.  
 185/Cal/88 Phillips Petroleum Company, Fluid loss additives for well cementing compositions.  
 186/Cal/88 Sushim Kumar Dev, Improvements in or relating to a method for the preparation of stabilized rice bran from the rice bran obtained from the mills and an apparatus for preparation of stabilized rice bran.

The 4th March 1988

- 187/Cal/88 Ezetip Pty. Ltd. Tipping and/or lifting mechanisms. Convention dated 29th April, 1987 (PI 1647) Australia.  
 188/Cal/88 Castle Company, Method and apparatus for venting sterilizers having a liquid load.  
 189/Cal/88 Therakos, Inc. Active specific immune suppression.  
 190/Cal/88 Westinghouse Canada Inc. Gas turbine combustor transition duct forced convection cooling. (Convention dated 1st April, 1987) Canada.  
 191/Cal/88 Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile tie gang apparatus and tie exchange method.

The 7th March, 1988

- 192/Cal/88 Texaco Development Corporation, Cooling system for gasifier burner operating in a high pressure environment.  
 193/Cal/88 Mitsui Toatsu Chemicals, Incorporated, Production process of chlorine.

194/Cal/88 Manville Salcs Corporation, High temperature and chemically resistant refractory fiber.

195/Cal/88 Amalendu Bhattacharya and Prativa Acharye, Improvements in or relating to fire tube boilers.

196/Cal/88 Unilever Plc. Food product.

197/Cal/88 Samuel W. Putch and Norman A. Nelson, Well suspension assembly.

198/Cal/88 Durametallic Corporation, Bearing protector.

199/Cal/88 Richter Gedeon Vegyeseti Gyogyvar R. T. Drying apparatus.

200/Cal/88 Metighe Industries, Inc. Oil water separator.

The 8th March 1988

201/Cal/88 The New Brunswick Telephone Company Limited, Lithium-lithium nitride anode.

202/Cal/88 Hodogaya Chemical Co., Ltd. Plant growth regulator.

203/Cal/88 Aeg Isolier-Und Kunststoff GmbH, A procedure for the continuous production of band shaped supporting plate.

204/Cal/88 Aeg Isolier-Und Kunststoff GmbH, Epoxide resin formulation with extremely short hardening time for the manufacture of epoxide glass laminates on continuously working double band presses.

205/Cal/88 F. I. Du Pont De Nemours & Company, A water in oil emulsion adapted to be blended with ammonium nitrate prills to form an explosive.

[Divisional dated 10th May, 1984].

### APPLICATION FOR THE PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, JIIRD FLOOR, KAROL BAGH, NEW DELHI-110005

New Delhi, the 8th February 1988

102/Del/88 Compair Broomwade Limited, "A pair of intermeshing rotors". (Convention date 29th May, 1984) (U.K.).

[Divisional date 28th May, 1985].

103/Del/88 W. R. Grace & Co., "Removing proteins from fluids".

104/Del/88 Dragerwerk Aktiengesellschaft, "Incubator having a heat store".

105/Del/88 Temper Corp., "Split workhead". (Convention date 23rd June, 1987) (Canada).

106/Del/88 La Telemecanique Electrique, "A protective switching apparatus with remote controllable opening and closing".

107/Del/88 Rachho Scientifiques, "A digestion vessel for conducting tests relating to chemical analysis".

108/Del/88 Shirish Pandya, "A bag filling machine".

The 9th February, 1988

109/Del/88 National Research Development Corporation of India, "A process for the preparation of phosphor".

110/Del/88 International Business Machines Corporation., "Raster scan digital display system".  
(Convention date 5th September, 1987) (U.K.)

The 10th February, 1988

111/Del/88. Ramesh Rane, "A screen printing machine."

112/Del/88 Dresser Industries, Inc., "Stepped piston for balanced pilot operated safety relief valve".

113/Del/88. Dresser Industries, Inc., "Flame arrestor and method of manufacture".

114/Del/88 The B. F. Goodrich Company., "Crosslinked porouskinless particles of PVC resin and process for producing same".

The 11th February, 1988

115/Del/88 Scape Group Plc., "Papermakers fabric".

116/Del/88 Colgate-Palmolive Company., "A nonisotropic solution polarizable material and electrical components produced therefrom".

117/Del/88 Scip. Inc., "Three-conductor booster cable assembly".

118/Del/88 Jimmy Fang, & Peter Tsung Hou Fei., "Loudspeaker having open-filter frame of continuous VV shape in cross section and wave modulation plate of same design".

The 12th February, 1988

119/Del/88 Poclain Hydraulics., "A rotary mounting for mounting a gear wheel relative to a frame".

120/Del/88. Poclain Hydraulics., "A multiple cylinder-capacity pressurized fluid motor or pump mechanism".

The 15th February, 1988

121/Del/88 Sulzer Brothers Limited., "Arrangement for uniform distribution of a liquid over exchange segments of a material and heat exchange column".

122/Del/88 The Standard Oil company., "Method for ammoxidation of paraffins and catalyst therefor"

The 16th February, 1988

123/Del/88 Council for mineral Technology., "The thermal reduction of agglomerated metallurgical feed materials with metallic coatings".

124/Del/88 Diabrasive International Ltd., "Flexible abrasives".  
(Convention date 27th February, 1987, 13th March, 1987, 21st October, 1987 & 20th November, 1987), (Canada).

125/Del/88 Ward Blenkinsop & Company Ltd., "Benzophenone Derivatives".  
(Convention date 17th February, 1987) (U.K.).

126/Del/88 Południowy Okręg Energetyczny., "A means for making a dense mixture of furnace waste and water, particularly power fly-ash, slag and water".

127/Del/88 ABB Stal AB, "A power plant for burning a fuel at high pressure and a gas turbine driven by the combustion gases".

128/Del/88 The Chief Controller of Research and Development, "Simple portable kit for test of anticholinesterase poisons (Chemical nerve agents and organophosphorus insecticides) in water".

The 17th February, 1988

129/Del/88. Satish Chander Sabharwal, "Solid state electric interruptor".

130/Del/88 Hwp Group, Inc., "Integrated pressure exhaust valve and fluid coupling".

131/Del/88 White Consolidated Industries, Inc., "Improved weld joint for soot blower lance tube".

132/Del/88 Union Carbide Corporation., "Method for rapid acoustic emission testing of pressure vessels".

The 18th February, 1988

133/Del/88. Sunil Duggal, "An invention relating to spindle assy. (DTE. 140)."

134/Del/88 Sunil Duggal, "An invention relating to spindle assy. complete (DTE-110)."

135/Del/88 Apple Computer, Inc., "Disk drive controller".  
(Convention date 25th August, 1987) (U.K.).

136/Del/88 Promorail., "Improvements in or relating to resilient assembly of a rail on its support without screwing means and method of providing same".

The 19th February, 1988

137/Del/88. Power-One, Inc., "Integrated magnetic resonant power converter".

138/Del/88 Colgate-Palmolive Company., "A packaged dental cream".

(Divisional date 14th August, 1986).

139/Del/88. Pfizer Inc., "Piperazinyl-Heterocyclic compounds".

#### APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 15th February, 1988

94/Mas/88 Gopala Sankara Narayana Panicker. An improved cycle rickshaw.

95/Mas/88 Siebe Gorman & Company Limited. Improvements in and relating to breathing apparatus.  
(February 16, 1987; United Kingdom).

96/Mas/88 Era Patents Limited Transformer Testing.  
(February 16, 1987; Great Kingdom).

The 16th February, 1988

97/Mas/88 The Plessey Company plc. A wideband/multislot switching arrangement. (February 17, 1987; United Kingdom).

98/Mas/88 Mitsubishi Jukogyo Kabushiki Kaisha. Roller Mill.

The 17th February, 1988

99/Mas/88. ARI Technologies, Inc. Removal of hydrogen sulfide from sour water.

100/Mas/88. Alimak AB. An equipment for raise mining.

101/Mas/88. Alexander I. Kalina. Direct fired power cycle.

The 18th February, 1988

102/Mas/88. Colorization Inc. Coloring a black and white signal using motion detection. (December 1, 1987; Australia).

103/Mas/88. Indian Space Research Organisation. Domestic electric shock protector.

104/Mas/88. Metal Box Public Limited Company. A method for manufacturing carbondioxide filled containers at a pre-selected density. (November 16, 1983; United Kingdom). (Divisional to Patent Application No. 875/Mas/84).

The 19th February, 1988

105/Mas/88. Ammonia Casale S.A. System to improve the efficiency of reactors for exothermic synthesis and more particularly for the reaction of ammonia.

106/Mas/88. Gardella Impanti Sistemi Industriali S.p.A. Apparatus for decorticating plants which are rich in long fibres directly in the field.

107/Mas/88. SDS Biotech Kabushiki Kaisha. Process for producing tetrafluoropethalic acid.

The 22nd February, 1988

108/Mas/88. Takeda Chemical Industries, Ltd. A stabilized Solid Composition.

109/Mas/88. MARC, Edouard Irigoyen & Pierre, Michel, Patrick Burrier. Support and attachment system for long-span beams.

The 23rd February, 1988

110/Mas/88. Salzgitter Maschinenbau GmbH. Method of an Wheeled Loader for the Conveying of Mined Materials.

111/Mas/88. AKZO N.V. A process for manufacturing yarns by melt spinning polyethylene terephthalate.

1112/Mas/88. Societe des Produits Nestle S.A. Process for sterilising an aqueous suspension of an insoluble salt in water.

113/Mas/88. Smith Brother (Whitehaven) Limited. Improvements in and relating to packaging. (February 24, 1987; United Kingdom).

The 24th February, 1988

114/Mas/88. Hoescht Aktiengesellschaft. Stabilized red phosphorus and process for making it.

115/Mas/88. Stamicarbon B.V. Catalyst system for high-temperature (CO) Polymerization of ethylene.

116/Mas/88. Stamicarbon B.V. Catalyst system for high-temperature (CO) Polymerization of ethylene.

The 25th February, 1988

117/Mas/88. Denby Developments Inc. Vacuum insulated shipping container and method.

118/Mas/88. Peter-BTR Cummiwerke Aktiengesellschaft. Power of conveyor belt and its method of constructors.

The 26th February, 1988

119/Mas/88. K.A. Rangachary. Television antenna direction turner.

120/Mas/88. K.A. Rangachary. Thepetrol saviour.

121/Mas/88. Dell'Orto S.P.A. Carburetor for internal combustion engines.

122/Mas/88. F. L. Smidt & Co. A method of granulating fine powder or the like.

123/Mas/88. Mobil Oil Corporation. Production of lubricating oils by hydrocrocking.

124/Mas/88. Altrack Limited. Ground Engaging surface for endless tracks and wheels. (February 26, 1987; Australia).

125/Mas/88. Rieter Machine Works Ltd. An installation for transporting conical thread packages. (December 2, 1983; United Kingdom). (Divisional to Patent Application No. 833/Mas/84).

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH, AT TODI ESTATES, IIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST), BOMBAY-13.

The 21st January, 1988

12/BOM/88 Hindustan Lever Limited (Divisional), Process for preparing an aqueous detergent compositions. (29th Feb. 1984. Gr. Britain).

The 25th January, 1988

13/BOM/88 Shri Gangadhar Sadabiv Tendolkar, Shri Kashi Prasad Modi and Shri N. P. Nair. A process for the preparation of an alloy of silver and tin oxide containing molybdenum trioxide and/or tungsten trioxide for electrical contacts.

14/BOM/88 Bajaj Auto Limited, Side bumpers for two wheeler motor vehicles.

15/BOM/88 Mrs. Neela Vinayak Rashinkar. An improved non-metallic screen for honeycombing of cylinder liners.

16/BOM/88 Hindustan Lever Ltd., Process for stamping a detergent bar. 26th Jan. 1987. Gr. Britain.

17/BOM/88 James H. Massey, Apparatus and method for flexible data base access.

The 28th January, 1988

18/BOM/88 Nippon Kokan Kabushiki Kaisha, Method for operating a blast furnace.

19/BOM/88 Nippon Kokan Kabushiki Kaisha, A blast furnace.

20/BOM/88 Nippon Kokan Kabushiki Kaisha, Tubes of blast furnace.

The 29th January, 1988

21/BOM/88 Hindustan Lever Limited. Detergent composition with fabric softening properties. 29th Jan. 1987. Gr. Britain. 7th Oct., 1987. Gr. Britain.

22/BOM/88. Pandurang Vithalrao Mane, Vanaspatti sinjivani the compound useful for curing plant diseases better growth and increase in fruit bearing capacity of plants.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month

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Class. 35-E 85-J.. 162145.

Int. Cl. C 04 b 45/04, F 27 d 1/00.

#### PROCESS FOR PRODUCING REFRACTORY BRICKS FOR LINING OF COAL GASIFIERS.

Applicants : (1) VEITSCHER MAGNESITWERKE-ACTIEN-GESELLSCHAFT, SCHUBERTRING 10-12, A-1010 WIEN, AUSTRIA, (2) VOEST-ALPINE AKTIEN-GESELLSCHAFT WERKSGELANDE, A-4010 LINZ, AUSTRIA;

(3) KORF ENGINEERING GMBH, NEUSSER STRASSE 111, D-4000, DUSSELDORF 1, WEST GERMANY.

Inventors : 1. DIPL. ING. DR. MONT. HANS. JURGEN GULAS,  
2. DIPL. ING. JOSEF HORAK,  
3. DIPL. ING. HORST SULZBACHER,  
4. DR. ING. GERO PAPST.

Application No. 127/Cai/84 filed February 22, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

A process for producing refractory bricks for lining of smelter gasifiers for the production of reducing gas for producing pig iron, characterised in that the part of the gasifiers attacked by liquid acid slags having a molar ratio of CaO/SiO<sub>2</sub> below 2 is lined with unburned carbonalbers magnesia bricks produced by mixing.

	Fused Magnesia	Sinter Magnesia
SiO <sub>2</sub>	0·87% by wt	0·44% by wt.
Fe <sub>2</sub> O <sub>3</sub>	0·57% ..	0·14% ..
Al <sub>2</sub> O <sub>3</sub>	0·24% ..	0·08% ..
CaO	1·79% ..	2·06% ..
MgO (Difference)	96·52% ..	97·24% ..
B <sub>2</sub> O <sub>3</sub>	0·012% ..	0·044% ..

these materials were mixed according to the following formula:

Fused Magnesia	Grain Size	
	3·0-5·0 mm	10% by wt.
	1·0-3·0 mm	23% ..
	0·1-0 mm	16% ..
Sinter Magnesia	3·0-5·0 mm	5% ..
	1·0-3·0 mm	18% ..
	0·0-1 mm	15% ..
Flake Graphite (85-90% by wt. C)		13% ..
Phenolic resin (binding agent)		5% ..

wherein the bricks were compacted with a pressure of 125-140 N/mm<sup>2</sup> and hardened in a subsequent thermal treatment for 2 to 4 hours at 200°C to 300°C.

Compl. Specn. 9 pages. Drg. Nil.

Class. 119-D & E.. 162146.

Int. Cl. D 03 d 47/00, 47/30.

#### IMPROVEMENTS IN OR RELATING TO LOOMS.

Applicants HARENDRA SHANTILAL GANDHI, HIMAT & SHANTILAL GANDHI AND KIRTIKUMAR

Inventors SHANTILAL GANDHI ALL OF 45 PARK STREET, CALCUTTA-700016.

Application No. 129/Cai/84 filed February 23, 1984. Complete Specification left on 26th September, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

A loom comprising :

(a) a wrap beam provided at the rear of the said loom on which is adapted to be loaded wrap threads;

(b) a wrap stop motion device provided at the upper end of the said loom through which the said wrap threads are made to pass so as to indicate breakages of wrap threads,

(c) a dobby connected to reed frames for providing sheds to the said wrap threads for a weft to be inserted;

(d) a slay for beating the weft against the wrap threads;

(e) a breast roll and a cloth beam provided with said loom such that the textile fabric after weaving is rolled on the said cloth beam;

(f) means provided for inserting the weft threads through the said wrap, the said means constituting an air jet device wherein the weft from a supply package is fed by a feed roller through a breaking device to the measuring means which is a measuring drum where the length of the weft required to be passed through the wrap is measured, the said measured weft being fed to a suction tube for temporary storing and from the suction tube is fed to an air nozzle through a gripper which is a stationary weft gripper transferring the said weft through an air guide from the air nozzle by a blast of air to the opposite end of the wrap shed where it is sucked by a suction nozzle and caught by a catch cord means;

(g) a weft measuring means provided for measuring the length of the weft to be inserted through the wrap shed;

(h) a weft feeler provided to feel the presence of the weft passing through the said wrap shed;

- (i) a cutter for cutting the said weft after it has passed through the wrap shed;
- (j) drive means provided for operating the said wrap beam, the cloth beam, the dobby, the slay, the welt inserting means and its auxiliaries through linkage means; and
- (k) selvege bobbins/yarns provided for selveging the welt after it has passed through the wrap shed.

Provisional Specn. 3 pages.

Drg. Nil.

Compl. Specn. 12 pages.

Drg. 2 sheets.

CLASS : 47-B&C.

162147

Int. Cl. : C 10 j 5/00; E 21 c 43/00.

#### METHOD OF UNDERGROUND GASIFICATION OF COAL SEAM.

Applicant : VSE-SOJUZNY NAUCNO-ISSLEDOVATEL'SKY INSTITUT ISPOLZOVANIAGAZA V NARODNOM KHOZYAISTVE I PODZEMNOGO KHRANENIA NEFTI, NEITEPRODUKTOV I SZHIZHENNYKH GAZOV VNI-IPROMGAZ, OF B. SERPUKHOVSKAYA, 10, MOSCOW, U. S. S. R.

Inventors : 1. IVAN SEMENOVICH GARKUSHA, 2. VADIM-NIKONOVICH KAZAK, 3. VALERY KONSTANTINOVICH KAPRALOV.

Application No. 148/Cal/84 filed March 2, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 4 Claims

A method of underground gasification of a coal seam, comprising the steps of :

determining the depth of occurrence and the thickness of a coal seam;

opening said coal seam by drilling operating injection and production wells therein;

interconnecting said wells within said coal seams;

forming gasification passages within said coal seams; and

igniting said coal and gasifying the same by supplying a gaseous medium through said injection wells and removing the produced gas from said production wells,

said coal seam being gasified successively layer by layer from the roof of said coal seam of the bottom thereof,

the drilling of said operating wells, their interconnection, the igniting of the coal and formation of said gasification passages being effected successively within each layer from top to bottom with gasification of each under-layer being started after the overlying layer is gasified and no shifting occurs in the rock overlying the gasified layer, shifting thereof resulting from the gasification of the layer supporting the rock,

the thickness of each gasified layer being chosen so that the height of a zone containing cracks formed as a result of the shift of the overlying rock does not exceed the depth of said gasified layer.

Compl. Specn. 12 pages.

Drg. 2 sheets.

CLASS : 69-P.

162148

Int. Cl. : H 02 b 1/08.

#### METAL ENCLOSED SWITCHGEAR.

Applicant : KABUSHIKI KAISHA MEIDENSCHA OF 1-17, OHASAKI 2-CHOME, SHINAGAWA-KU, TOKYO, JAPAN.

Inventor : 1. TOSHIKAZU YAMAMOTO.

Application No. 256/Cal/84 filed April 19, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 3 Claims

A metal-clad switchgear comprising :

a box with a bottom which has perpendicular partition and a circuit breaker accomodating chamber defined in front of the perpendicular partition;

a pair of disconnectors fixed to and through the perpendicular partition, one disconnector of said pair being connected to a power supply bus and the other disconnector of said pair being connected to a load bus;

an earthing switch connected to the load bus;

an earthing switch operating rod for operating said earthing switch;

a circuit breaker, which has a pair of connecting rods for electrical connection to and disconnected from said disconnectors, and a roller rolling on the bottom of said box and capable of carrying the circuit breaker into or out of the circuit breaker accomodating chamber; and

an interlock between said earthing switch and said circuit breaker, characterized in that said interlock includes a stopping lever operating rod rigidly secured to said earthing switch operating rod, a roller stopping lever, operated, in use, by said stopping lever operating rod arranged to be rotated extending into the path on the bottom of said box of the roller, and a stationary roller stopper rigidly secured to the bottom of said box so as to connect said roller stopping lever in the position where it is extended into the path of the roller.

Compl. Specn. 11 pages.

Drg. 2 sheets.

CLASS : 69-I.

162149.

Int. Cl. : H 01 r 39/00.

#### VACUUM INTERRUPTER.

Applicant : KABUSHIKI KAISHA MEIDENSCHA OF 1-17, OHASAKI 2-CHOME, SHINAGAWA-KU, TOKYO, JAPAN.

Inventors : 1. KATSUAKI SENBA, 2. JUNICHI WARABI.

Application No. 350/Cal/84 filed May 22, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 11 Claims

A vacuum interrupter including an envelope which comprises at least one cylinder, two annular end plates connected in a vacuum-tight manner to the opposite ends of the cylinder, a pair of electrical lead rods of copper or a copper-based alloy, an inner end of each electrical lead rod having an electrical contact, and one electrical lead rod being brazed in a vacuum-tight manner to one end plate via a first sealing means, and a bellows of an iron-based alloy surrounding another electrical lead rod, an outer end of the bellows being joined in a vacuum tight manner to another end plate and an inner end of the bellows being brazed in a vacuum-tight manner to the other electrical lead rod via a second sealing means, the pair of electrical lead rods being electrically disconnected when the contacts are separated, wherein the first

and second sealing means have generally tubular sealing member made of an iron-nased alloy and fitted onto the corresponding electrical lead rod, and wherein a groove retaining a solid brazing metal and two vacuum-tight brazing surfaces opposing the corresponding electrical lead rod with a small clearance are formed in the inner wall of each sealing member.

Compl. Specn. 20 pages.

Drg. 6 sheets.

CLASS : 128-A.

162150.

Int. Cl. : A 61 F 13/00.

**ABSORBENT BODY HAVING EDGE DENSITY GRADIENT.**

Applicant : PERSONEL PRODUCTS COMPANY, OF VAN LIEW AVENUE, MILLTOWN, NJ 08850, UNITED STATES OF AMERICA.

Inventors : 1. RICHARD B. CHAPJAS, 2. PRAMOD MAVINKURVE.

Application No. 615/Cal/84 filed September 4, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office, Calcutta.

5 claims

An absorbent body of fibrous material for absorbing body fluids, said body being generally planar and elongated and having a substantially uniformly compressed peripheral edge extending about essentially the entire periphery of the body;

said peripheral edge having a density of at least ten times greater than the least dense portion of the body, said dense peripheral edge extending inwardly from the extreme periphery for a distance of at least 0.1 cm;

said body provided with a longitudinal density gradient, said longitudinal gradient extending from a point of least density longitudinally toward said compressed peripheral edge with said density increasing toward said peripheral edge at an increasing rate;

said body provided with a transverse density gradient, said transverse gradient extending from a point of least density transversely toward said compressed peripheral edge and said transverse density increasing toward said peripheral edge at an increasing rate;

whereby body fluid striking the body at a point in proximity to the peripheral edge will be transported rapidly away from said point.

Compl. Specn. 17 pages. Drgs. 4 sheets.

CLASS : 32-3-C.

162151

Int. Cl. C 12 f 100.

**PROCESS FOR PRODUCING METHANOL AND A DRIED FEED FROM A BIOMASS.**

Applicant & Inventor : WALTER FRANK ALBERS, 2626 EAST ARIZONA BILTMORE CIRCLE 23, PHOENIX, ARIZONA 85016, UNITED STATES OF AMERICA.

Application No. 1173/Cal/83 filed September 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office, Calcutta.

6 claims

A process for producing aqueous ethanol and a dried feed from a biomass comprising the steps of :

- (a) pasteurizing said biomass in a single plate still to provide a pasteurized biomass while simultaneously distilling water therefrom;
- (b) fermenting said pasteurized biomass in single plate still to obtain aqueous ethanol vapors therein;
- (c) condensing said aqueous ethanol vapors to form an aqueous ethanol condensate and ~~removing~~ said aqueous ethanol condensate; and
- (d) subsequently further heating said biomass in said single plate still to remove residual water therefrom as water vapor.

Compl. Specn. 26 pages. Drg. 1 sheet.

CLASS : 14-A.

162152

Int. Cl. H 01 m 43/00, 43/02, 43/04.

**A SEALED, RECHARGEABLE NICKEL-ZINC CELL.**

Applicant : DURACELL INTERNATIONAL INC., AT BERKSHIRE INDUSTRIAL PARK, BETHEL, CONNECTICUT-06801, UNITED STATES OF AMERICA.

Inventors :

1. HENRY FRANK GIBBARD,
2. RONALD ALAN PUFT,
3. CLAUDE JAMES McNARD,
4. RICHARD CONNER MURRAY JR.
5. THEODORE WILLIAM VALENTINE.

Application No. 1431/Cal/83 filed November 21, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office, Calcutta.

10 Claims

A sealed, rechargeable nickel-zinc cell comprising a sealed housing defining a cell space, an electrochemical cell element contained in said cell space, such as herein described, said electro-chemical cell element which is under compression including a zinc electrode comprising a current collector and an active mass, a nickel electrode and a separator such as herein described there-between, a predetermined amount of an alkaline electrolyte contained in said cell housing, a positive terminal electrically connected to said positive electrode, a negative terminal electrically connected to said zinc electrode and a means for oxidizing the hydrogen evolved in service to maintain a satisfactorily low internal pressure within said cell, said zinc electrode being essentially free of zinc metal as constructed in the discharged state.

(Compl. Specn. 20 pages.)

Drg. 2 sheets)

CLASS : 6-A.

162153

Int. Cl. : F 25 j 1/00.

**SCROLL-TYPE MACHINE.**

Applicant : COPFLAND CORPORATION, COMBELL ROAD, SIDNEY, OHIO 45365, UNITED STATES OF AMERICA.

Inventors : 1. EARL BURNELL MUIR, 2. RUSSELL WILLIAM GRIFFITH, 3. GERALD WALTER JULIEN THAL.

Application No. 1571/Cal/83 filed December 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office, Calcutta.

## 40 Claims

In a scroll-type machine including :

a first scroll member having a first spiral wrap; and

a second scroll member having a second spiral wrap and being mounted for movement with respect to said first scroll member,

said second wrap being intermeshed with said first wrap so that when said second wrap is moved with respect to said first wrap along a predetermined path fluid pockets of progressively changing volume are formed;

the improvement comprising means for causing said second wrap to move along said predetermined path, including :

drive means for causing a first point on said second scroll member to move in a generally circular orbital path with respect to said first scroll member, and

rotation controlling means for restricting rotational movement of said second scroll member by limiting movement of a second point thereon.

(Compl. Specn. 26 pages.)

Drg. 4 sheets)

CLASS : 6-A<sub>2</sub>; 36-A<sub>2</sub>; 127-I.

162155

Int. Cl. F01b 7/00; F04c 2/00; F04f 1/00, 3/00, 5/00.

## AN ORBITING SCROLL COMPRESSOR.

Applicant : COPELAND CORPORATION, CAMPBELL ROAD, SIDNEY, OHIO 45365, UNITED STATES OF AMERICA.

Inventor : 1. RUSSELL WILLIAM GRIFFITH.

Application No. 33/Cal/84 filed January 13, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 43 Claims

An orbiting scroll compressor having first and second intermeshed scroll members in which a fluid is compressed by displacement in a direction parallel to a plane perpendicular to the axis of orbital movement, means for causing concurrent additional compression of said fluid by displacing it in a direction parallel to said axis comprising :

said first scroll member having :

an end plate;

a spiral wrap extending outwardly from a first axis generally perpendicular to said end plate, said wrap being attached to said end plate;

means on said end plate defining a generally flat first surface disposed between the flanks of said wrap for a first portion of the arcuate length thereof;

means on said end plate defining a generally flat second surface disposed between the flanks of said wrap for a second portion of the arcuate length thereof;

said first and second surfaces respectively lying in spaced parallel planes disposed perpendicularly to said first axis;

said second scroll having :

a generally flat end plate;

a spiral wrap extending outwardly from a first axis generally perpendicular to said end plate, said wrap being attached along one axial edge to said end plate;

means on the axially opposite edge of said wrap defining a first tip surface extending for a first portion of the arcuate length of said wrap;

means on said axially opposite edge of said wrap defining a second tip surface extending for a second portion of the arcuate length of said wrap; and

said first and second tip surfaces respectively lying in spaced parallel planes disposed perpendicularly to said first axis.

(Compl. Specn. 26 pages.)

Drg. 4 sheets)

CLASS : 65-B<sub>2</sub>

162155

Int. Cl. H 01 f 3/00.

FERROMAGNETIC CORES FOR ELECTRIC TRANSFORMER, METHOD OF PRODUCING SAME AND ELECTRIC TRANSFORMERS COMPRISING SAID FERROMAGNETIC CORES.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. GARY CLARK RAUCH. 2. ROBERT FRANCIS KRAUSE.

Application No. 199/Cal/84 filed March 23, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

A ferromagnetic core, for an electric transformer having an operating induction, B, in which said core includes a plurality of ferromagnetic circuits, said plurality of ferromagnetic circuits being constructed of at least two ferromagnetic materials having different saturation limited inductions, so that the first ferromagnetic circuit of said plurality of ferromagnetic circuits being constructed of an iron base amorphous material having a saturation limited induction, B<sub>1</sub>, a second ferromagnetic circuit of said plurality of ferromagnetic circuits being constructed of a grain-oriented electrical steel having a saturation limited induction B<sub>2</sub>, both first and second ferromagnetic circuits having a laminated structure, whereby the second ferromagnetic circuit structurally supports the first ferromagnetic circuit, and that the electric transformer is in the transmission and distribution of electrical energy, that said operating induction, B, is between B<sub>1</sub> and B<sub>2</sub>, and that the amorphous laminations are substantially thinner than the grain-oriented steel lamination.

(Compl. Specn. 16 pages.)

Drg. 4 sheets)

CLASS : 152-C.

162156

Int. Cl. C 04 b 33/00.

## A LIGHT POROUS CERAMIC FIBER COMPOSITION.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventors : 1. FRANK THOMAS FELICE. 2. CELESTE BRANDMAYR YONUSHONIS.

Application No. 333/Cal/84 filed May 14, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A light-weight, porous ceramic fiber composition resistant to wetting and attack by molten aluminum alloys comprising:

- (a) from 20 to 65 weight % ceramic fiber;
- (b) an additive containing essentially crystalline  $9\text{Al}_2\text{O}_3 \cdot 2\text{B}_2\text{O}_3$  such that the ceramic fiber composition contains from 1 to 12 weight %  $9\text{Al}_2\text{O}_3 \cdot 2\text{B}_2\text{O}_3$ ; and
- (c) the remainder comprising a refractory binder such as herein defined in a quantity at least sufficient to bind said ceramic fiber composition together, and when desired,
- (d) 0.4 to 5 weight % polyethylene oxide;
- (e) and any water as may be needed to produce the desired consistency.

Compl. Specn. 12 pages.

Drg. Nil

CLASS 39-L; 141-D

162157

Int. Cl. C 01 F 7/14

## METHOD OF PRODUCING AN ALUMINIUM TRIHYDROXIDE WITH A LARGE EVEN PARTICLES SIZE

Applicant: ALUMINIUM PECHINEY, OF 23, RUE BATZAC 75008 PARIS, FRANCE.

Inventors: 1. BENOIT CRISTOL, 2. JACQUES MORDJINI.

Application No. 559 Cal/84 filed August 9, 1984.

Additional No. 782/Cal 83 dated 22nd June 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 30 Claims

A method, according to the first claim of patent application 782/Cal/83 (158680) of decomposing a super saturated solution of alkali metal aluminate obtained by the Bayer process of alkaline action on bauxites comprising at least one decomposition zone having a cascade of  $n$  stages, with the introduction of primer and the formation of a suspension containing a large amount of dry material, at least 700 grammes per litre of alkali metal aluminate solution to be decomposed, characterised in that, for the purpose of obtaining an aluminium trihydroxide with a large, even particle size, in which a maximum of 10% of the particles produced have their smallest dimension less than 45 microns, a zone for the separation of particularly fine solid particles of aluminium trihydroxide is formed in at least one of the decomposition zones of the Bayer process comprising the cascade of  $n$  stages, that the separating zone is supplied by at least part of the flow of suspension circulating in said decomposition zone, from which a fraction is extracted, containing at least 5% of the total number of said fine particles with a maximum diameter of 40 microns which are present in the flow circulating in the decomposition zone, while the residual suspension leaving the separating zone is returned to the decomposition zone, then that the fraction containing the fine particles thus extracted is treated to reduce by at least 50% the number of fine particles present in said fraction and the fraction is recycled, after said treatment, to at one stage of the Bayer process, and wherein said treatment mentioned above is carried out by subjecting the fraction containing the fine particles extracted from the flow circulating in the decomposition zone to a known type of treatment such as herein described in order to reduce the number of these fine particles by at least 50% before the fraction is recycled to at least one stage of the Bayer process.

(Compl. Specn. 30 pages.)

Drg. 3 sheets

2-17 GI/88

CLASS : 152-L.

162158

Int. Cl. C 08 L 30/00

## PROCESS FOR PRODUCING AN EPOXY RESIN COMPOSITION

Applicant: HITACHI, LTD., OF 6, KANDA SURUGADAI, 4-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors: TORU KOYAMA, 2. CHIKASHI KANNO, 3. SHINICHI TOYODA, 4. MOTOYO MAJIMA.

Application No. 232 Cal/83 filed March 28, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A process for producing an epoxy resin composition comprising mixing in any order:

(A) an epoxy resin base composition consisting of an epoxy resin and a polycarboxylic acid anhydride;

(B) an alkali metal and/or an alkaline earth metal compound such as herein described, and

(C) a compound having at least one hydroxyl group such as an adduct of an organic monocarboxylic acid and an epoxy resin or phenol,

wherein the component (B) is contained in an amount of  $0.3 \times 10^{-3}$  to  $10 \times 10^{-3}\%$  by weight based on the weight of the component (A) and the component (C) is contained in an amount of 0.05 to 0.5% by weight in terms of the OH group based on the weight of the component (A).

(Compl. Specn. 15 pages.)

Drg. 4 sheets

CLASS : 6-A2.

162159

Int. Cl. A 47 L 9/00

## VACUUM GENERATING APPARATUS

Applicant: SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors: 1. SIEGFRIED SCHONWALD, 2. NORBERT SCHMID, 3. FLANS-GEORG TROJAHN.

Application No. 685 Cal/85 filed September 30, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 17 Claims

A vacuum generating apparatus comprising:

a vacuum pump of the type which requires an auxiliary liquid for its operation and which has a suction input for admitting suction gas from a chamber or the like which is to be voided and a discharge output for discharging the suction gas;

a preliminary liquid separator connected to the discharge output and arranged to effect preliminary separation of auxiliary liquid which is present in the suction gas discharged from the output, the auxiliary liquid being borne by the suction gas as it passes through the vacuum pump;

a liquid cooler connected between the separator and the vacuum pump and arranged to receive and to cool liquid which is separated out from the suction gas in the separator and to return such cooled liquid to the vacuum pump; and

a further liquid separator connected to the preliminary separator and arranged to receive said suction gas issuing from the preliminary separator with a residual content of auxiliary liquid, the further separator being operable to effect further separation of liquid from the suction gas and to return such liquid to the vacuum pump;

in which :

the preliminary separator and the further separator are spatially separated from each other and are interconnected by means providing a fluid path for the suction gas/liquid mixture issuing from the preliminary separator;

a gas cooler is arranged in said fluid path, and is separate from said liquid cooler; and

the liquid cooler and the gas cooler are so arranged that, in use, the gas leaving the gas cooler has a substantially lower temperature than the auxiliary liquid leaving the liquid cooler.

(Compl. Specn. 22 pages.)

Drg. 3 sheets)

CLASS :

162160

Int. Cl. C 02 f 1/66.

**A METHOD FOR NEUTRALIZING WASTE SULFURIC ACID BY ADDING A SILICATE.**

Applicant : RIJKSUNIVERSITEIT UTRECHT, OF KROMME NIEUWE GRACHT 29, 3512 HD UTRECHT, THE NETHERLANDS.

Inventor : I. ROELOF DIRK SCHUILING.

Application No. 678/Cal/85 filed December 6, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A method of neutralizing waste sulfuric acid, by adding a salt of a weaker acid than sulfuric acid, characterized in that magnesium silicate is added to and allowed to react with the sulfuric acid; and upon completion of the reaction, separating the aqueous phase containing the magnesium and sulfate ions from the silica precipitates, if necessary.

(Compl. Specn. 6 pages.)

Drg. Nil)

Class. 179-I

162161.

Int. Cl. B67b 3/00.

**A PILFER-PROOF CLOSURE FOR BOTTLES, CONTAINERS AND LIKE.**

Applicant : SPBP TEA INDUSTRIES PVT. LTD., OF 20 BRITISH INDIAN STREET, 2ND FLOOR, CALCUTTA-700069, WEST BENGAL, INDIA.

Inventor : I. MAYANK KUMAR.

Application No. 629/Cal/84 filed September 12, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**3 Claims**

A pilfer proof closure made of plastic for bottles, containers and the like comprising a closure body having a top, a depending skirt with an internal screw thread, a safety band provided below the said skirt, frangible tongues or tell-tale connections provided connecting the said safety band with the said skirt of the closure body, characterised in that two concentric ribs are provided projecting below the top of the closure body acting as liners such that the closure is not fitted at the time of assembly on to the container body in which case because of the elasticity of the closure the safety band with the depending skirt slides over the external screw thread and a bell shaped portion provided with the body of the bottle, container and the like with the safety band locking in the neck provided with the bottle, container and the like body and once the said safety band is locked in position the said internal and the external threads mesh together and the two concentric ribs rests on the mouth of the bottle, container and the like while for unscrewing the said closure the frangible tongues will have to be torn to prove the bottle, container and the like having been tampered with.

(Compl. Specn. 10 pages.)

Drg. 1 sheet.

Class. 179-F & G.

162162.

Int. Cl. B 65d 1/00, 17/26.

**A PILFER-PROOF THERMOPLASTIC CONTAINER.**

Applicant : SPBP TEA INDUSTRIES PVT. LTD., OF 20, BRITISH INDIAN STREET, 2ND FLOOR, CALCUTTA-700069, WEST BENGAL, INDIA.

Inventor : I. MAYANK KUMAR.

Application No. 630/Cal/84 filed September 12, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**3 Claims**

A pilfer-proof thermoplastic container comprising a body having a shoulder and a neck at its upper end and the mouth of the container being provided with threads or if it is a drop dispenser is provided with a dropper tip on which is provided the said threads for a resealable cap to be screwed thereon, characterised in that a tamper indicating cover is provided above the said resealable cap which is hermetically sealed to the mouth of the container by a weakened joint, said tamper indicating cover being provided with ribs for applying pressure to enable break the hermetic sealing of the said cover from the body of the container.

(Compl. Specn. 8 pages.)

Drg. 1 sheet.

Class. 62-B.

162163.

Int. Cl. B 05c 5/00.

**AN APPARATUS FOR APPLICATION OF FOAM TO A SUBSTRATE SUCH AS TEXTILES.**

Applicant & Inventor : KIRTI KUMAR SHANTILAL GANDHI, OF DAWISH TEXTILE ENGINEERS PVT. LTD., 95, PARK STREET, CALCUTTA-700016, STATE OF WEST BENGAL, INDIA.

Application No. 684/Cal/84 filed September 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**8 Claims**

An apparatus for the application of foam to a substrate such as textiles comprising a hollow cylinder or supporting drum mounted on a frame structure, a metallic jacket wrapped around the said cylinder or supporting drum so as to provide a uniform gap in between the said jacket and the said supporting drum, an inlet provided with the said supporting drum for foam into the said gap, a nozzle provided on top of the said supporting drum having a slit which is in communication with the said gap, a substrate adapted to travel perpendicularly across the said nozzle and particularly over the said slit for proper application of the foam, guide rollers provided mounted on the said frame structure for the travel of the said substrate over the said nozzle, the said nozzle at its end thereof being provided with end sliding arrangements having sensors such that substrates having various widths can be continuously applied with foam.

(Compl. Specn. 11 pages.)

Drg. 2 sheets.

Class. 98 I

162164.

Int. Cl. F24j 3/00.

**SOLAR POWER PLANT.**

Applicant : NAUCHNO-PROIZVODSTVENOI OBEDINENIE "SOLNTSE" AKADEMII NAUK TURKMENSKOI SSR, OF ASHKHABAD, MASSIV BIKROVA, USSR.

Inventors : 1. NURMAMFD SAIYLOV, 2. LUIS BERRIS PERES, 3. RFDZHEP BAIRAMOV, 4. NAZAR REDZHEPOVICH KORPEEV, 5. VALERY MIKHAILOVICH MIKHEEV.

Application No. 738/Cal/84 filed October 20, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 3 Claims

A solar power plant comprising a solar radiation receiver and heliostat placed on a rotating mount composed of two shafts arranged perpendicularly to each other, the main shaft of the two being set in the direction of the rays reflected from the heliostat mirror, and provided with a sun tracking mechanism comprising a drive shaft set at an angle to the Earth & surface, equal to the geographical latitude of the solar plant location, and a rigid link directed towards the sun and a telescopic boom articulated to each other, one end of the rigid link being articulated with the heliostat by means of slides set in guides secured on the carrying frame of the heliostat, while the other end of said rigid link is articulated with the drive shaft in the point where the axis of said shaft crosses the axis of the main shaft of the rotating mount, the telescopic boom being additionally articulated with the drive shaft.

Compl. Specn. 10 pages.

Drg. 2 sheets.

Class. 145-D.

162165.

Int. Cl. D21b 3/00, 7/00.

### AN IMPROVED PAPER MACHINE HEADBOX.

Applicant : BELOIT CORPORATION, OF P.O. BOX 350, BELOIT, WI 53511, UNITED STATES OF AMERICA.

Inventors : 1. JOSE JUAN ANTONIO RODAL, 2. JAMES TEROY EWALD.

Application No. 768/Cal/84 filed November 5, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 11 Claims

A paper machine headbox for delivering stock to a forming surface, comprising a slice chamber, a slice opening, a trailing element positioned in the slice chamber for stock flow induced movement, said trailing element having planar stock-contacting surfaces extending continuously from side-to-side and from an upstream end to a downstream end of the element, said element extending transversely of said headbox and consisting of a material giving said element greater structural stiffness in the cross-machine direction than in the machine direction so that the element resists deflection in the cross-machine direction by transient pressure variations and offers low resistance to deformation in the machine direction for balancing pressure forces on opposite sides of the element, and means anchoring said element in the slice chamber at an upstream portion with the downstream portion unattached and constructed to be self-positionable so as to be responsive to forces exerted thereon by the stock flowing over said surfaces of the element.

Compl. Specn. 13 pages.

Drg. 2 sheets.

CLASS : 145-D.

162166

Int. Cl. D 21 f 3/00.

### EXTENDED NIP PRESS.

Applicant : BELOIT CORPORATION OF P.O. BOX 350 BELOIT, WISCONSIN 53511, UNITED STATES OF AMERICA.

Inventor : 1. EDGAR J. JUSTUS.

Application No. 833/Cal/84 filed December 3, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 3 claims

Press mechanism for removing liquid from a traveling fibrous web (W) comprising :

a press nip (N) formed between first and second members (10, 11) for receiving the traveling fibrous web (W) therebetween;

a first of said members being a cylindrical press roll (10);

the second member being a looped belt (11) wrapping a portion of the roll (10) to form the nip (N);

a mandrel (17) within the belt (11) essentially of a size to fill the inside of the belt (11), said mandrel (17) directly supporting the entire belt (11), extending in a cross-machine direction, having a center portion with a first concave surface (18) facing the nip (N) and having its ends (26, 27) thicker than the center portion;

means (F1, F2) for receiving liquid pressed from the web (W) in the nip (N);

means defining lubricant delivery passages (30, 31) extending through the mandrel (17) and opening from the mandrel surface for supplying lubricant between the mandrel (17) and belt (11); and

means (19) for providing a pressing force within the nip (N);

said mandrel (17) being deflectable in the direction of said pressing force;

characterized in that

said mandrel (17) has a second concave surface (20) opposite the first concave surface (18); and

said means for providing a pressing force within the nip (N) include a support roll (19) in running engagement with the belt (11) opposite the nip (N) at said second concave surface (20) with forces between the press roll (10) and support roll (19) providing said pressing force within the nip (N).

Compl. Specn. 12 pages. Drg. 1 sheet.

CLASS : 6-B., ..

162167

Int. Cl. F 25 j 1/00.

### METHOD OF LIQUEFYING A GAS AND LIQUEFIER FOR CARRYING OUT THE METHOD.

Applicant : N. V. PHILLIPS' GIJOEELAMPENFABRIEKEN, AT GROENE WOUDSEWEG 1, EINDHOVEN, THE NETHERLANDS.

Inventor : 1. LEO JOZEF MARIA HAMERS.

Application No. 187/Cal/85 filed March 13, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 6 claims

A method of liquefying a gas at a superatmospheric first pressure supplied by a gas-supplying device, in which this gas is supplied to a cryogenerator and the liquid formed is then brought to a second pressure which is equal to or lower than the first pressure, characterized in that the gas flowing out of the gas-supplying device is cooled in a first gas/gas

heat exchanger before it is supplied to the cryogenerator after which, the saturated liquid formed in the cryogenerator by condensation and wet vapour are conducted to a liquid separator, while the saturated liquid emanating from the liquid separator and the wet vapour formed after the liquid separator by expansion are conducted to a second heat exchanger which is situated in liquid already produced in a thermally insulated reservoir and is condensed and sub-cooled and sub-cooled, respectively, in this second heat exchanger, the degree of sub-cooling being obtained by means of a pressure controller connected to the second heat exchanger, after which regulation of said sub-cooling is effected by means of the adjustment of the said second pressure between a value corresponding to a maximum value of the second pressure equal to the pressure in the cryogenerator and a value corresponding to a minimum value of the second pressure equal to the pressure in the reservoir, while the condensation heat and the sub-cooling heat are utilized for evaporating a part of the liquid present in the thermally insulated reservoir and the vapour formed thereby is conducted to the first heat exchanger for cooling the gas supplied by the gas-supplying device, the liquid evaporated in the reservoir being replenished by means of a supply duct connected downstream of the liquid separator.

Compl. Specn. 14 pages. Drgs. 3 sheets.

CLASS : 50-E.

162168

Int. Cl. F 25 b 3/00 to 5/00.

#### HIGH-LOW SUPERHEAT CONTROL SYSTEM FOR A REFRIGERATION SYSTEM COMPRESSOR.

Applicant : CARRIER CORPORATION, AT 6304 CARRIER PARKWAY, P.O. BOX 4800, SYRACUSE, NEW YORK 13221, UNITED STATES OF AMERICA.

Inventor : 1. RICHARD GARY LORD.

Application No. 251/Cal/85 filed April 2, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 claims

A control system for a refrigerating means having a compressor for compressing gaseous refrigerant supplied to the compressor from an evaporator, comprising :

the sensor for monitoring superheat of the refrigerant passing from the evaporator to the compressor; and

processor means for shutting down operation of the refrigeration system when the monitored superheat is greater than a preselected upper limit or when the monitored superheat is less than a preselected lower limit.

Compl. Specn. 14 pages. Drg. 1 sheet.

CLASS :

162169

Int. Cl. C 30 b 25/00.

#### A PROCESS FOR THE PRODUCTION OF CRACK-FREE LARGE-AREA CRYSTALLINE SILICON BODIES FOR SOLAR CELLS.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors : 1. LORF BERENEWITZ, 2. RICHARD FALKENBERG, 3. GERHARDT HOYLER, 4. JOSEF GRABMAIER.

Application No. 287/Cal/85 filed April 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 claims

A process for the production of crack-free, quasi-monocrystalline large-area crystalline silicon bodies for use in solar cells by continuously coating a sheet-like carrier body having a reticular structure and consisting of a carbon fibre fabric by bringing the molten silicon into contact with the carrier body and integrating the carrier body into the silicon body during the crystallisation of the silicon, wherein in order to improve its wettability, the carbon fibre fabric constituting the carrier body prior to coating with silicon, is subjected to an activating surface treatment, at least in those zones which are required to be coated with silicon, so as to form unsaturated C-bonds at the surface thereof.

Compl. Specn. 7 pages. Drg. nil.

CLASS : 69-I.

162170

Int. Cl. H 01 r 4/00.

#### A PLUG CONNECTOR FOR CONSUMER ELECTRONICS.

Applicant : PREH, ELEKTROFEINMECHANISCHE WERKE, JAKOB PREH, NACHF. GMBH & CO., OF SCHWEINFURTER STRASSE 5, D-8740 BAD NEUSTADT/SAALE, WEST GERMANY.

Inventor : 1. OSWALD REUSS.

Application No. 314/Cal/85 filed April 26, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 claims

A plug connector for consumer electronics for providing at least one electrical connection to a cable, having at least one guide pin made of a solid material and an insulating housing with said guide pin inserted into and through said housing, said pin having a connector portion on the front side of said housing and a rear section on the back side of said housing a conductor terminal part configured to be fitted snugly onto said rear section, said terminal part consisting of a connector part extending to the rear for crimping onto said cable and a sleeve-like contact spring part extending forward, characterized by the fact that said rear section has an axial, concentric bore and a lateral slot which is located inside said bore and extending as far as said bore said contact spring part being approximately the length of said rear portion and having an enlargement at its opening.

Compl. Specn. 9 pages. Drgs. 2 sheets.

CLASS : 32E<sub>2</sub>(b), 55 E<sub>4</sub>, 54

162171

Int. Cl. : A 61 K-27/14, C 07 D-311/00.

#### A PROCESS FOR THE PREPARATION OF PHARMACEUTICALLY ACTIVE 1, 9-DIDEOXYFORSKOLIN FROM COLEUS FORSKOHLII.

Applicant : HOECHST INDIA LIMITED, OF HOECHST HOUSE, NARAIMAN POINT, 193 BACKBAY RECLAMATION, BOMBAY-400 021, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventors : DR. ALIHSSEIN NOMANBHAI DOHADWALLA, SADASHIV SHANTARAM MANDREKAR, DR. NANDKUMAR KESHVARAO DADKAR, DR. YATENDRA KHANDEWAL, DR. NOEL JOHN DE SOUZA & DR. RICHARD HELMUT RUPP.

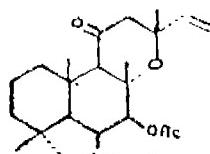
Application No. 345/Bom/1984 filed on 14th December, 1984.

Complete after provisional filed on 13th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

## 7 Claims

A process for the preparation of pharmaceutically active 1, 9-dideoxyforskolin of the formula II



Formula II

from the plant *Coleus forskohlii*, said process comprises extracting dried and ground *Coleus forskohlii* with a first solvent such as herein described at a temperature ranging from ambient to the boiling point of the first solvent, filtering and concentrating the first solvent extract in a known manner such as herein described to obtain a first residue, reextracting the first residue with a second solvent such as petroleum ether at a temperature ranging from ambient to the boiling point of the second solvent, filtering and concentrating the second solvent extract in a known manner such as herein described to obtain a second residue and subjecting the second residue to column chromatography using an eluent such as herein described followed by crystallisation from an organic solvent mixture such as herein described.

Provisional specification 13 pages,

Drg. 1 sheet

Compl. specn. 13 pages.

Drg. Nil

CLASS : 129 F [XXXV]

162172

Int. Cl. : 23 C-7/00.

#### A MILLING ATTACHMENT FOR DRILLING/BORING AND LIKE MACHINES.

Applicant & Inventor : AVINASH VINAYAK JOSHI, OF ARYA CONSULTANTS, 219-B, PARVATI, PUNE-411 009, MAHARASHTRA, INDIA.

Application No. 2/Mom/1985 filed on January 3, 1985.

Complete after provisional filed on March 27, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules), 1972, Patent Office, Bombay Branch.

## 6 Claims

1. A milling attachment for drilling/boring and the like machine comprising a shank body having a fork at its bottom end for revolvably fixing thereto a milling cutter by means of a screw/pin or the like forming an axle therefor, above said forked end in one side of shank body is provided a slot having spaced apart tapped holes for fixing thereto a track guide/slide plate-cum-guard for said milling cutter by means of fixing screws, another tapped hole being provided on other side of said shank body for fixing thereto an eccentric bushing or a large diameter bushing or a bushing having two, three, four or five stepped flanges matching with corresponding bore in a work piece, said shank body having integrally formed flange at its top end, said flange having a pair of radial tapped holes in spaced relationship with each other, one of said tapped hole forming a seat for an oil cup and the other for fixing thereto a handle, and an axial hole extending from top end upto seat of said forked end for passing therethrough and securing thereto a rotatably mounted spindle which also passes through a thrust bearing and secured thereto by a slotted nut, bottom end of said spindle being provided with known teeth means for driving said revolvably mounted milling cutter in an axis at right angle to the axis of said spindle and upper end thereof being adapted to get fitted to a collar

of a straight or tapered shank and secured thereto by fixing screws for detachably fixing said milling attachment to the chuck of a drilling/boring and the like machine in known manner for milling a straight slot or plurality of slots in spaced apart relation in a straight, or eccentric or stepped bore of a work piece in the manner herein described.

CLASS : 136 E+144 A+188

162173

Int. Cl. : B 29 C—41/00, B 29d—27/04.

#### A METHOD FOR *IN SITU* CASTING OF A TUBULAR MEMBRANCE DIRECTLY ON A POROUS TUBULE OR CAPILLARY AND *IN SITU* CAST TUBULAR MEMBRANCE DIRECTLY ON A POROUS TUBULE OR CAPILLARY OBTAINED THEREBY FOR USE IN REVERSE OSMOSIS TUBULAR MODULES.

Applicant : BHABHA ATOMIC RESEARCH CENTRE, OF TROMBAY, BOMBAY-400 085, MAHARASHTRA, INDIA.

Inventors : (1) BRAJ MOHAN MISRA, (2) KOCHEEKIZHAKETHIL CHACKO THOMAS AND (3) MELARCODE PARAMESHWARA S. RAMANI.

Application No.46/BOM/1985 filed on February 19, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

## 6 Claims

A method for *in situ* casting of a tubular membrane directly on a porous tube or capillary made of a material such as herein described, said method comprises washing said tube or capillary with a solvent such as acetone, ether or alcohol, drying said tube or capillary, uniformly coating a polymer substance dope such as herein described directly on said porous tube or capillary evaporating the solvent in the dope coating on said tube or capillary at controlled atmospheric conditions and gelling and if necessary annealing said tube or capillary.

Compl. specn. 10 pages

Drg. 1 sheet

CLASS : 136 E, 144 A, 188

162174

Int. Cl. : B 29 C—41/00, B 29 D—27/04

#### A METHOD FOR *IN SITU* CASING OF A TUBULAR MEMBRANCE DIRECTLY IN A POROUS SUPPORT TUBE AND AN *IN SITU* CAST TUBULAR MEMBRANCE DIRECTLY IN A POROUS SUPPORT TUBE OBTAINED THEREBY FOR USE IN REVERSE OSMOSIS TUBULAR MODULES.

Applicant : BHABHA ATOMIC RESEARCH CENTRE, OF TROMBAY, BOMBAY-400 085, MAHARASHTRA, INDIA, A SCIENTIFIC INSTITUTION OF THE DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA.

Inventor : BRAJ MOHAN MISRA, KOCHEEKIZHAKETHIL CHACKO THOMAS AND MELARCODE PARAMESHWARA S. RAMANI.

Application No. 47/BOM/1985 filed on 19 February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

## 6 Claims

1. A method for *in situ* casting of a tubular membrane directly in a porous support tube made of a material such as herein described, said method comprises washing said support tube with a solvent such as acetone, ether or alcohol, drying said support tube, uniformly coating a polymer substance dope such as herein described directly on the inner wall

of said support tube and evaporating the solvent in the dope coating in said support tube at controlled atmospheric conditions and gelling and if necessary annealing said support tube.

Compl. specn. 13 pages

Drg. 1 sheet

CLASS : 33 C

162175

Int. Cl. : B 22 c—1/22

A METHOD OF MAKING FOUNDRY SAND MOULD OF CORE.

Applicant : GREAVES FOSFCO LIMITED, AN INDIAN COMPANY, OF JOLLY BHAVAN NO. 2, 1ST FLOOR, NEW MARINE LINES, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : JOHN MACHIN AND MARTYN DAVID BENTHAM.

Application No. 51/BOM/1985 filed on 21st February, 1985; U.K. Convention Priority date 22 February, 1984, (8404595).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

10 Claims

1. A method of making a foundry sand mould or core comprising mixing together particulate refractory material, a phenol-formaldehyde resole resin in alkaline aqueous solution and a curing agent for the resin comprising a liquid ester of a dihydric glycol having 3 or more carbon atoms, forming the mixture to the shape of the mould or core and allowing the mixture to harden.

Compl. specn. 12 pages

Drg. Nil

CLASS : 107 G

162176

Int. Cl. : F01N—3/10

AN IMPROVED ANTI POLLUTION REACTOR FOR USE WITH THE EXHAUST GAS PIPE OF A VEHICLE ENGINE.

Applicant & Inventor : IQBAL KRISHNA BHARATI, AN INDIAN NATIONAL OF E-780, JAHU NORTH BOMBAY SOCIETY, NEAR JUHU HOTEL BOBMAY-400 049, MAHARASHTRA, INDIA.

Application No. 80/BOM/85 filed on Apr. 1, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

6 Claims

1. An improved anti pollution reactor for use with the exhaust gas pipe of a vehicle engine comprising a circular plate or disc fitted by any known manner to a pipe which is fixed to the exhaust gas pipe, the said plate or disc having a central axial opening or hole and a radial passage extending through the plate and terminating at the periphery of the said reactor pipe connecting said opening or hole to the atmosphere.

Compl. specn. 10 pages

Drg. 1 sheet

CLASS : 93 XXXIII (4)

162177

Int. Cl. : B 01 J 2/02, 2/12

APPARTUS FOR THE PRODUCTION OF GRANULES.

Applicants : SANITRADE LIMITED, A COMPANY INCORPORATED UNDER THE SWISS LAWS, ALPENQUAI 12, 6002 LUZERN, SWITZERLAND.

Inventor : REINHARD FROESCHKE.

Application No. 137/BOM/85 filed on May 27, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay.

19 Claims

An apparatus for the production of granules from a flowable medium comprising :

a cylindrical vessel rotatable about a horizontal axis, said vessel including a plurality of orifices distributed circumferentially around said vessel, through which the medium can flow from inside the vessel,

a collector wall disposed stationary within said vessel and extending obliquely relative to a horizontal plane containing said axis, so as to include upper and lower ends, said lower end being spaced above an internal surface of said vessel,

means for introducing medium into said vessel such that the introduced medium travels downwardly onto said collector wall and flows downwardly thereupon and onto said internal surface of said vessel and through said orifices in the form of droplets,

abaffle surface extending downwardly and pressing against said internal surface of said vessel and positioned so that the medium flowing onto said internal surface is situated ahead of said baffle surface with reference to the rotation of said vessel, and

cooling means disposed beneath said vessel and movable relative thereto and arranged to receive the droplets.

Compl. specn. 15 pages

Drg. 2 sheets

Ind. Cl. : 116F, 116A

162178

Int. Cl. B 66 B—5/12, 5/18.

A FAIL SAFE DEVICE FOR VERTICAL ELEVATORS.

Applicant & Inventor : NIRMAL PANNALAL, C/O. PANNALAL METAL INDUSTRIES, BADORA, BOMBAY, MADHYA PRADESH, INDIA.

Application No. 235/Bom/1985 filed September 2, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

5 claims

A fail safe device for vertical elevators comprising a plurality of vertically disposed roller chains anchored to walls of elevator well, a plurality of friction multiple disc centrifugal clutches fixed to elevator car, each of said friction multiple disc centrifugal clutches being engaged to individual said roller chains through corresponding chain sprockets remaining constantly meshed with said roller chains, said chain sprockets being fixed to drive shaft of each of said friction multiple disc centrifugal clutches, said drive shaft transmitting its rotations to a driven shaft through a gear drive individual clutch housings enclosing therein members of said friction multiple disc centrifugal clutches all of said friction multiple disc centrifugal clutches adapted to clutch at abnormally increased rotational speed of said drive shaft.

Compl. Specn. 8 pages; Drgs. 2 sheets.

Ind. Cl. : 117B.

162179

Int. Cl. F 05 B —3500.

A TAMPER-PROOF LOCKING DEVICE ADAPTED TO BE INCORPORATED IN A SHIELD OR COVER TO AN ENCLOSURE HOUSING A PROTECTABLE SUBJECT.

Applicant : RFMSONS CABLES PRIVATE LIMITED, 88B, GOVERNMENT INDUSTRIAL ESTATE, KANDIVLI (W.E.S.T.), BOMBAY-400 067, MAHARASHTRA, INDIA.

Inventor : DIPAK SUKHLAL SHETH.

Application No. 266/oom/1985 filed October 3, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

## 2 claims

A tamper-proof locking device adapted to be incorporated in a shield or cover to an enclosure housing a protectables subject, the device comprising a tubular wrench and a wrench receiving mechanism, the wrench-receiving mechanism comprising a rotatable machined shaft with a co-axial ring fitted thereon and the inner end being adapted to receive a stopper, the shaft being rotatably contained in a housing with a bush at its back, the housing having a thrice stepped-up axial holes in cooperative contact with the ring mounted shaft and bush, bush having equal blind holes circumferentially disposed, the ring having a plurality of equal holes disposed circumferentially at the same radial distance from the centre of the ring, said holes being adapted to receive said pins, some or all of the said pins having different lengths, the inner ends of said pins inside said holes being in contact with like pins of the same lengths, the inner ends of the second set of pins going into the corresponding blind holes in the bush with their ends resting against a set of compression springs located in said blind holes of bush, said shaft having towards its inner end a stopper fixed on it, bush being held to the housing by a pin, the open end of the housing being adapted to receive the tubular end of the wrench with slots cut in its base, said slots of the wrench being adapted to engage the front ends of the first set of pins and rotate the shaft, each of the first set of pins with the corresponding pin of the second set and the corresponding compression spring being in alignment and adapted and adapted to be pushed axially by the corresponding slot in the wrench, the rotation of the shaft being confined between predetermined limits by the stopper having steps corresponding to the steps at the open end of the housing, the outer end of the housing having an inward flange partially covering the holes in the ring, thereby acting as a stopper to the pins of the first set.

Compl. Specn. 9 pages; Drgs. 3 sheets.

Ind. Cl. : 148B.

162180

Int. Cl. G03B—7/00.

AN ELECTRONICALLY OPERATED LIGHT APERTURE CONTROL DEVICE FOR CAMERAS AND OTHER OPTICAL DEVICES.

Applicant & Inventor : KISHORILAL MUNSHI AND KIRTI TRIVEDI, AT IIT QUARTERS IIT POWAI, BOMBAY-400 076, MAHARASHTRA, INDIA.

Application No. : 304/BOM/1985 filed on 11th November, 1985.

Complete after provisional left on 11th February, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

## 3 claims

An electronically operated light aperture control device for cameras and other optical devices comprising a combination of plurality of cells mounted on a transparent frame, each said cell comprising a back plane electrode over which are mounted photolithographically placed transparent liquid crystal (such as Indium Titanium Oxide also known as 'ITO') and a segment electrode, placed over said crystal facing back plane electrode, the whole assembly being placed between crossed polaroids; the said segment electrode being patterned in the form of a closely spaced annular ring segment facing the back place electrode to form a cell; at least two such cells being placed together centrally aligned and in that the annular ring segments in the segment electrode being placed offset slightly from the central position; the whole assembly and arrangement being such that when RMS voltage  $V_r$  is applied to the segment electrode and the back plane electrode the device acts as a light shutter i.e. no light gets transmitted therethrough and when voltage  $V_t$  is applied to the back plane electrode and all the segment electrodes except annular ring (1), the aperture opening being equal to the internal diameter of annular ring segment (2) thus allowing light to pass said aperture to make the device act as an electronic shutter as well as aperture control means for camera and other optical devices and wherein for precise aperture control the number of annular segments is increased in each cell.

Prov. Specn. 9 pages; Drgs. 3 sheets.

Comp. Specn. 9 pages; Drg. nil.

## OPPOSITION PROCEEDINGS

An opposition has been entered by Merr. Mechelonic Welders Pvt. Ltd., Bombay on Patent Application No. 160919 made by Mrssrs. Dengensha Manufacturing Co. Ltd., Japan.

An opposition has been entered by Aggarwal Oil Industries to the grant of a Patent application No. 161068 made by Balmer Lawrie & Co. Ltd.

An opposition has been entered by Evergreen Wirecloth Factory Pvt. Ltd. to the grant of a Patent application No. 155545 made by N. V. Bekacrt S. A. as notified in the Gazette of India, Part III, Section 2 dated 12th October, 1985, the opposition has been dismissed and Patent application shall be sealed.

## PATENT SEALED

158329 158609 158676 158686 158721 158738 158759 158836  
 158869 158897 158899 158900 158901 158902 158937 158981  
 159013 159120 159142 159150 159173 159187 159221 159222  
 159224 159225 159226 159230 159239 159244 159247 159248  
 159252 159255 159256 159499 159500 159505 159560 159512  
 159527 159529 159540 159541 159942

## AMENDMENT PROCEEDINGS UNDER SECTION 51

Notice is hereby given that Chamfesser Lenzing Aktiengesellschaft of A-4860 Lenzing, Austria, an Australian Company have made an application under Section 51 of the Patents Act 1970 for "Improvements in or relating to a circular loom". The amendments are by way of correction so as to reflect new name. The application for amendment and proposed amendments can be inspected free of charge at the Patent Office Branch, Unit-No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110 005, or copies of the same can be had on payment of usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition in form 30 within three months from the date of this notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Buildings Saraswati Marg, Karol Bagh, New Delhi-110 005. If the Written Statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

## RENEWAL FEES PAID

139692 140913 141303 141504 141567 142633 143275 143315  
 143552 143658 143724 143829 144216 144385 144408 144719  
 144768 144857 144962 145234 145354 145401 145490 145688  
 145721 145792 146011 146160 146229 146284 146377 146388  
 146778 147350 147470 147555 147603 147710 147721 147912  
 148102 148152 148239 148423 148514 148558 148636 148862  
 149072 149073 149276 149289 149380 149496 149645 149672  
 150129 150144 150662 150663 150672 150689 150822 150924  
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 151605 151835 151887 151901 151957 152012 152200 152346  
 152624 152674 152757 153065 153218 153253 153280 153384  
 153539 153681 153701 154739 153755 153759 153761 153794  
 153807 153927 154019 154040 154111 154208 154250 154492  
 154650 154712 154748 154753 154757 154872 154873 154874  
 154993 154995 155211 155306 155347 155355 155361 155381  
 155382 155425 155447 155448 155533 155612 155618 155619  
 155708 155714 155718 155753 155799 155818 155911 155969  
 156172 156237 156447 156469 156625 156633 156680 156705  
 156721 156722 156771 156790 156934 156942 156989 157015  
 157016 157030 157067 157090 157098 157132 157221 157294  
 157336 157446 157602 157606 157607 157621 157640 157643  
 157694 157711 15714 157733 157734 157829 157905 157941  
 157971 157695 158032 158039 158193 158212 158213 158260  
 158275 158276 158277 158278 158279 158280 158281 158282  
 158305 158369 158377 158384 158586 158621 158651 158655

158667 158781 158791 158814 155837 158840 158863 158878  
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 159177 159447 159449 159454 159483 159576 159579 159581  
 159583 159584 159610 159614 159615 159629 159671 159687  
 159688

## CESSATION OF PATENTS

152841 156889 157771

## RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 149384 dated the 24th April, 1979 made by PMP Auto Industries Private Limited on the 17th April, 1986 and notified in the Gazette of India, Part III, Section 2 dated the 26th September, 1987 has been allowed and the said patent restored.

Notice is hereby given that an application for restoration of Patent No. 156921 dated the 23rd June, 1982 made by Keith Hancock Structure Limited on the 15th May, 1987 and notified in the Gazette of India, Part III, Section 2 dated the 10th October, 1987 has been allowed and the said patent restored.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154881 granted to Cummins Engine Company Inc. for an invention relating to "a replaceable liner for use in a cylinder cavity of an internal combustion engine block".

The patent ceased on the 13th November, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 9th January, 1988.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 9th June, 1988 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 147456 granted to O & K Orenstein & Koppel Aktiengesellschaft Werk Lubeck for an invention relating to "derrick especially for unloading containers."

The patent ceased on the 2nd November, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 9th January, 1988.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017, or on before the 9th June 1988 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. Nos. 158625 to 158632. Jyoti Jewellery, Indian Proprietary Firm of Juma Masjid, 327, Sheikh Menon Street, Bombay-400 002, Maharashtra, India. "Photo Frame". August 4, 1987.

Class. 1. No. 158620. —Do— "Lipstick Stand". August 4, 1987.

Class. 1. 158860. Hindustan General Equipments, Indian Partnership Firm of 98, Mohamedali Road, Bombay-400 003, Maharashtra, India. "Tap". September 29, 1987.

Class 1. No. 158912. Sona Steel Products, Indian Partnership Firm of B-9, Doshi Udyog Nagar, Balram Patil Marg, Bhayandar (East), Dist : Thane, Pin-401 105, Maharashtra, India. "Cooker Containers R.A.S. Lifting Device". October 12, 1987.

Class 1. Nos. 158785 to 158791. Alumigrille, Indian Proprietary Firm of 46, Bajaj Bhavan, Nariman Point, Bombay-400 021, Maharashtra, India. "Metallic Grille". September 10, 1987.

Class 3. Nos. 158597 to 158603. Om Industries, Indian Partnership Firm of Prospect Chambers', Room No. 3, 5th floor, Dr. D. N. Road, Fort, Bombay-400 001, Maharashtra, India. "Electric Switch". July 31, 1987.

Class 3. Nos. 158607 to 158618. Girishkumar Ramniklal Katarmal, of Unity Products, Near Payanchakki, Jamnagar, Gujarat, India. "Acrylic Shaw Button". July 31, 1987.

Class 3. Nos. 158858 & 158859. Jet Kind Electronics Ltd., Indian Company, 350, Lamington Road, Bombay-400 007, Maharashtra, India. "Transistor". September 29, 1987.

Class. 3. 158768. Digital Equipment Corporation, American Company of 146, Main Street, Maynard, MA 01754, U.S.A. "Printer Outer Casing". September 4, 1987.

Class. 3. 158887. Milton Plastics, Indian Partnership Firm, 202/203, 'Raheja Centic', 214, Nariman Point, Bombay-400021, Maharashtra, India. "Container". October 7, 1987.

Class. 3. No. 158906. Twinkle Mercantile Limited, Indian Company, Prospect Chambers, D. N. Road, Fort, Bombay-400 001, Maharashtra, India. "Mixer Grinder". October 9, 1987.

Class 3. No. 158952. Shree Krishna Keshav Laboratories Ltd., of Amraiwadi Road, Ahmedabad-380 008, Gujarat, India. Indian Co. "Bottles". October 20, 1987.

Class 3. No. 159004. Indian Cosmetics, 351, Raja Naba Kissen Street, Calcutta-700 005, W. B., India, Indian Proprietary Firm "Container". November 9, 1987.

Class 3. Nos. 159054 & 159055. Eagle Flask Pvt. Ltd., Indian Co., Eagle Estate, Talegaon-410 507, Dist. Pune, Maharashtra, India. "Jug". November 24, 1987.

Class 3. No. 159286. Moneeto Plasti-Fab Pvt. Ltd., Indian Company, Pannalal Silk Mills Estate, L. B. S. Marg, Bhandup (West), Bombay-400 078, Maharashtra, India. "Container-Grinder". January 20, 1988.

Class 4. No. 158773. HMM Limited, Indian Co., Patiala Road, Nabha-147 201, Punjab, India. "Jar". September 8, 1987.

Class 5. Nos. 158877 & 158878. Nirma Chemical Works, Plot No. 32, Vatva Industrial Estate, 1/2, Pharmaceutical Zone, Opp : Choksi Tube, G. I. D. C., Vatva-392445, Gujarat, India. "Soap Packet". October 6, 1987.

Class 10. No. 158762. Allied Rubber Works, Partnership Firm of 69, Nujafgarh Road, Delhi, India. "Sole of Footwear". September 2, 1987.

Class 12. Nos. 158954 & 158955. Hindustan Cocoa Products Ltd., of 19, Bhulabhai Desai Road, Bombay-400 026, Maharashtra, India. "Biscuits". October 21, 1987.

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Nos. 150451, 154714, 154715, 154716, 155647, 155353, 155354 & 157098

Class 3.

COPYRIGHT EXTENDED FOR THE SECOND PERIOD OF FIVE YEARS

Nos. 150431, 153595, 153596, 152921, 152654, 154714  
154715, 154716, 155647, 155353, 155354 & 157098 Class 3.

R. A. ACHARYA  
Controller General of Patents, Designs  
and Trade Marks,